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CALIBRATION TEST PREPARATIONS
SHAGAN RIVER TEST AREA, USSR

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1. (S/D) SIGNIFICANCE: THESE CALIBRATION TESTS ARE PRECURSORS TO ICBM SILO VULNERABILITY TESTS WHICH ARE PROBABLY SCHEDULED FOR THIS SUMMER AT SHAGAN RIVER.
2. (S/D) REMARKS: PREPARATIONS FOR BLAST AND OVERPRESSURE CALIBRATION TESTS ARE UNDERWAY AT SILOS 16 AND 132. SILO 16, AT LOCATION 122, WAS THE CALIBRATION TEST SILO FOR THE 1981 SILO VULNERABILITY TESTS AT AREA 89. THIS WILL BE THE FIRST TIME THE SOVIETS HAVE USED A CALIBRATION SILO TWICE. SILO 132 (LOCATION 132) IS A NEW CALIBRATION SILO BEING BUILT FOR 1982 VULNERABILITY TESTING AT AREA 89. THE TWO CALIBRATION SILOS ARE ADJACENT TO EACH OTHER AND TWO MILES WEST OF AREA 89. A THIRD CALIBRATION TEST, OF A SMALL HIGH EXPLOSIVE SIMULATION TECHNIQUE (HEST) STRUCTURE, IS BEING PREPARED IMMEDIATELY SOUTH OF SILO 16, NEXT TO THE REMAINS OF THE 1981 SMALL HEST STRUCTURE TEST.

(S/D) THREE TYPES OF HIGH EXPLOSIVE (HE) SIMULATORS WILL BE USED AT SILOS 16 AND 132. ARCH-ROOFED HEST STRUCTURES, ROW BEPM LOADED EXPLOSIVE SIMULATION TECHNIQUE (BLEST) BEDS, AND DIRECT INDUCED HIGH EXPLOSIVE SIMULATION TECHNIQUE (DI-HEST) ARRAYS WILL BE USED AT EACH SILO. THE HEST COMPONENTS AND TUBULAR EXPLOSIVES FOR THE BLEST SUGGEST THAT THE HEST AND BLEST SIMULATORS WILL BE LIKE THOSE USED LAST YEAR. HOWEVER, THE CONFIGURATION OF THE SHAFTS FOR THE DI-HEST ARRAYS IS NEW.

(S/D) IN 1981, THE DI-HEST ARRAY TESTED AT SILO 16 AND LATER USED AT SILOS 11 AND 13 IN AREA 89, CONSISTED OF A LINE OF THREE 1-METER-DIAMETER SHAFTS SPACED 25 METERS APART. THE LINE OF SHAFTS WAS PERPENDICULAR TO A 60-METER LINE BETWEEN THE CENTER SHAFT AND THE SILO. THE NEW DI-HEST ARRAYS AT SILOS 16 AND 132 HAVE FIVE SHAFTS; THREE IN THE SAME POSITION AS THE 1981 DI-HEST ARRAYS PLUS TWO ADDITIONAL SHAFTS ON A LINE PARALLEL TO THE LINE OF THREE SHAFTS BUT 20 METERS BEHIND THEM. THE TWO ADDITIONAL SHAFTS ARE ALSO APPROXIMATELY 25 METERS APART AND ALL FIVE FORM A TRAPEZOIDAL PATTERN.

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(S/D) WHILE THE PATTERN AND SPACING OF THE TRAPEZOIDAL DI-HEST ARRAYS ARE THE SAME AT SILOS 16 AND 132, THE SIZE OF THE SHAFTS IN THE ARRAYS APPEARS TO BE DIFFERENT. THE SILO 16 DI-HEST SHAFTS APPEAR TO BE MORE THAN TWICE THE DIAMETER OF THE SILO 132 DI-HEST SHAFTS. ALSO, THE TWO SHAFTS IN THE SECOND LINE OF THE DI-HEST AT SILO 16 APPEAR TO BE SMALLER THAN THE THREE IN THE FIRST LINE. THESE DIFFERENCES IN SHAFT DIAMETER SUGGEST THAT THE DESIGN OF THE TRAPEZOIDAL DI-HEST ARRAY HAS NOT BEEN FINALIZED, AND THAT ONLY THE ARRAY WHICH PROVIDES THE MOST DESIRABLE RESULTS WILL BE USED LATER THIS YEAR TO TEST SILOS 10 AND 12 IN AREA 89. [REDACTED]

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3. (S) [REDACTED] COORDINATES 49-59-25N, 078-55-48E

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